



ESA Earth Observation Multilingual Web Site for Secondary Schools

http://www.eduspace.esa.int









Highlights

· Context:

- A European project, implemented by ESA/ESRIN under the umbrella of EURISY, through co-operation with space agencies and education authorities

· Assets:

- A Secondary School teacher was a key member of the web site Implementation Group, and is a member of the Eduspace Operations Team, to ensure site's development according to school requirements.
- The *Eduspace Council of Teachers (ECT)* represents European Secondary School teachers and plays a vital advising and co-operating role in the Eduspace project
- Considered as a reference tool for education by international Working Groups





Tools of EDUSPACE

- → Introduction to Remote Sensing
- → Suitable tools for image processing (LEOWorks)
- → Huge searchable image archives (ESA and non-ESA)
- → Documented study cases (including schools projects)
- → A school network (it includes a discussion Forum)
- → A helpdesk (eduspace@esa.int)
- → In-service training of teachers.

To date, it is available in six versions:

English, French, Italian, Spanish, German, Danish (paid for by the Danish Ministry of Education). Portuguese and Dutch are being prepared, Greek TBC. External requests: Romanian and Turkish.







General Subjects 1st Level

- → Europe from Space
- → Global Change
- → Disaster Monitoring

→ ...







Europe from Space 2nd Level

- → Cities
- → The Alps
- → Weather
- → Landscapes







The Weather of Europe (3rd level)

- → Teachers and students do explore and analyse the weather of the day in Europe
- → Access to recent weather images
- → Case studies showing typical and also extreme weather situations
- → Worksheets and exercises







Case Studies (4th level)

- → Introduction
- → Background
- → Exercises
- → Links





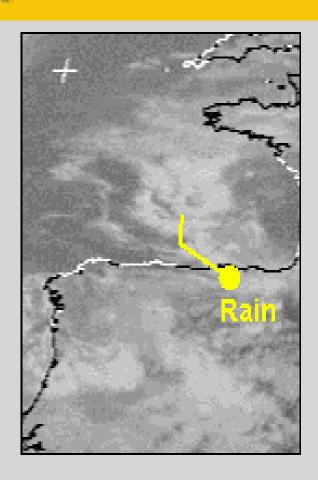


Case study: Interactive Meteosat

School inputs visible to everyone

J

Interactive METEOSAT



Each day at 09.00 UTC the current METEOSAT image covering Europe will be shown at the project site. Students from participating schools observe the weather and upload their observation to the project. Immediately the observations will be showed on top of the satellite image. When may schools participate and upload information the daily METEOSAT image will show the weather throughout Europe. Thereby enabling an interpretation of the satellite image.

Remember than in winter that is 10.00 MET and 11.00 MET during the summer (MET: Middle European Time).

View the archive of images and observations.

I would like to <u>register my school</u> to join the project.

Background

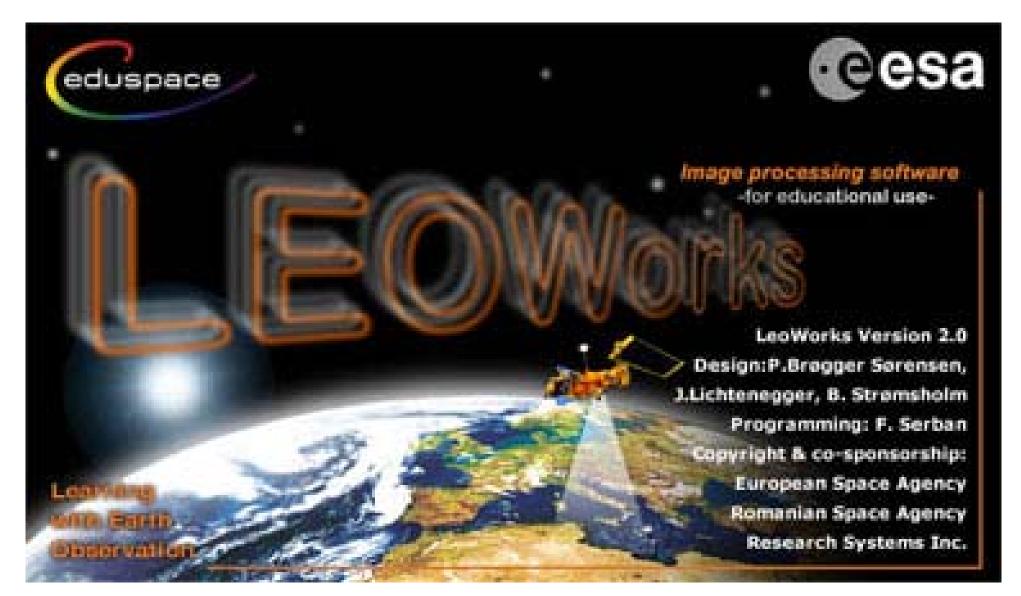
Worksheet

Link

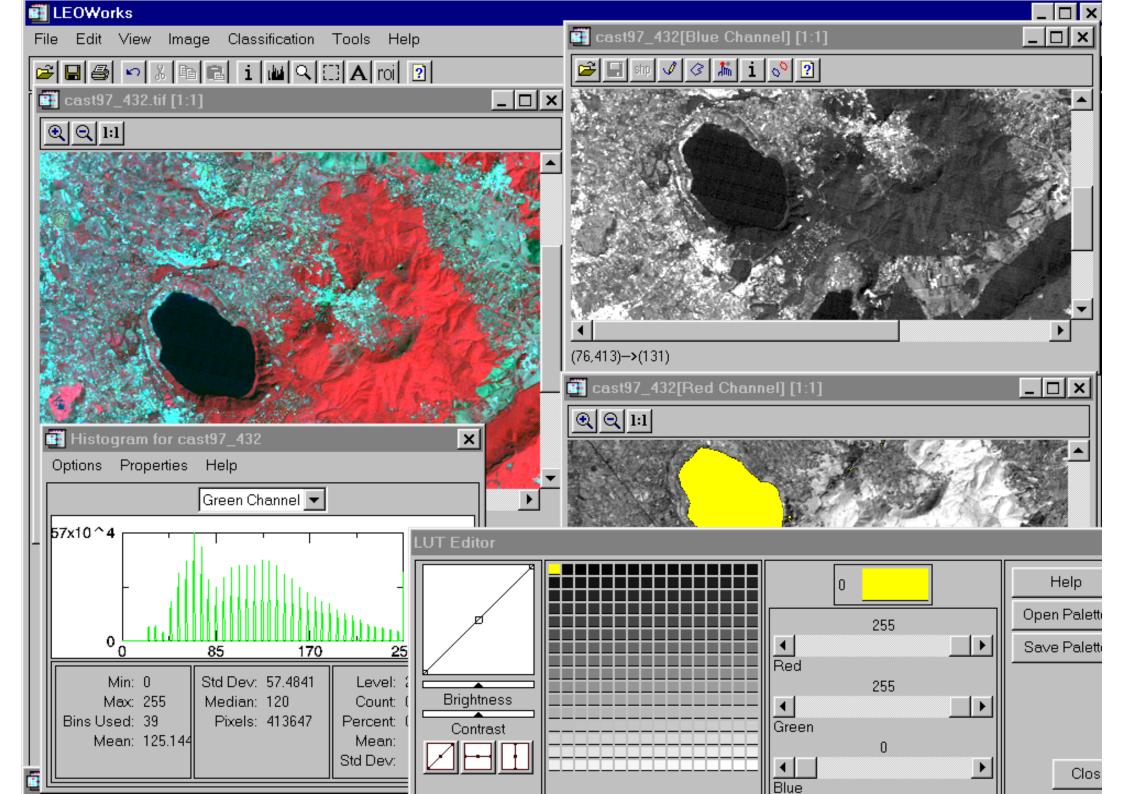




Digital Image Processing Tool











Statistics



NOTE: Low values correspond mostly to school holidays







Eduspace Spin-off

CONAE:

- The Argentinean Commission for Space Activities has asked ESA to allow the use of the Spanish version of Eduspace, in order to achieve the goal of introducing EO to 2 millions students by 2007 (an objective of their National Space Plan). The project will be carried out as an implementation of the ESA-CONAE MoU and the generated study cases will populate the Eduspace "Latin America from space" module.

TIGER:

- LEOWorks, the Eduspace image processing software, has been adapted to the needs of the ESA TIGER initiative and has been distributed free of charge to the TIGER PIs for their exclusive use within their TIGER projects, upon signature of the proper Terms and Conditions form.